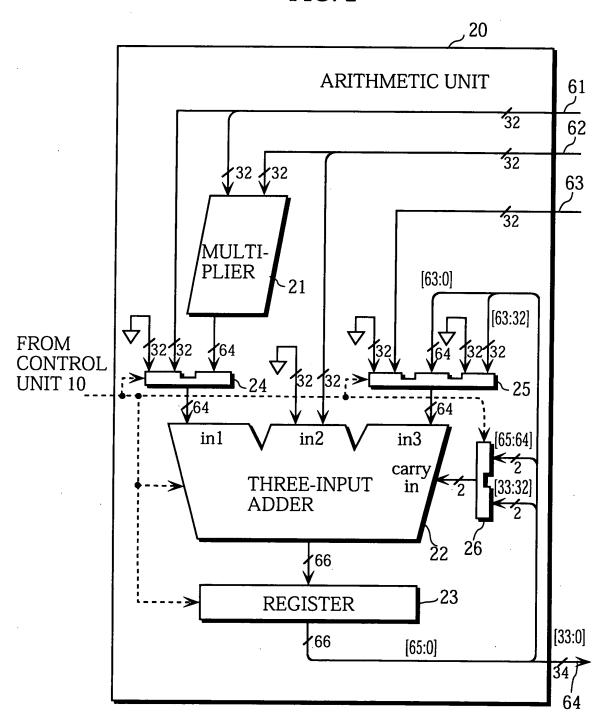
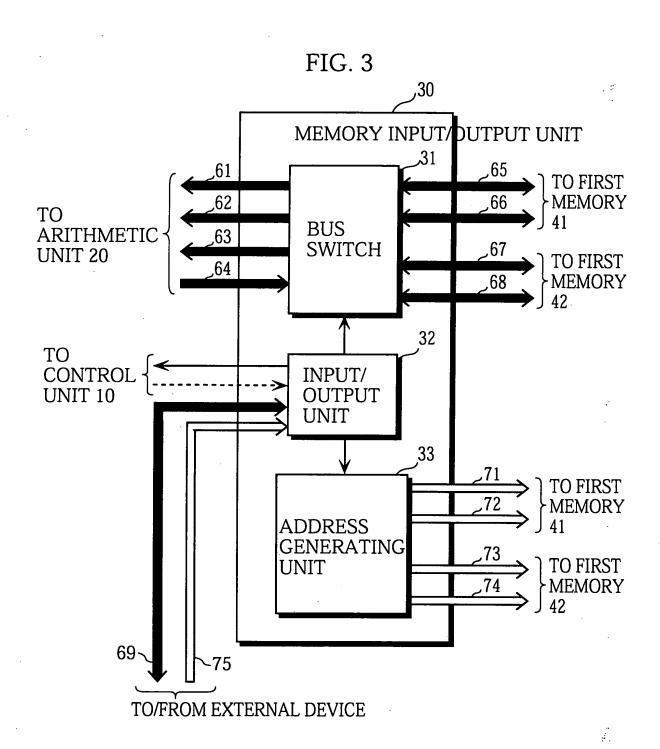
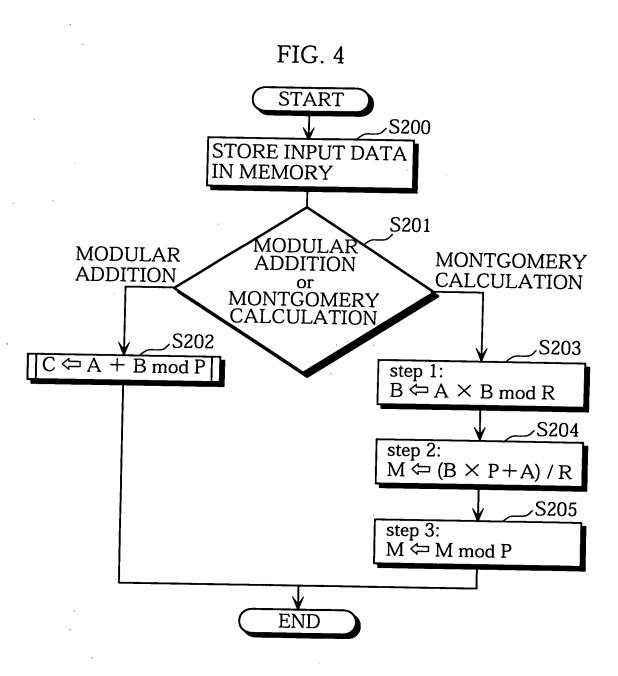


FIG. 2







u		
C	CALCULATION FORMULA	C=A+B mod P
	EXAMPLE INPUT	A: 1011 · · 100110 · · 001110 · · 011010 · · 100101 · · 10 B: 0100 · · 101001 · · 011011 · · 010010 · · 111010 · · 00 B: 0100 · · 101001 · · 011011 · · 010010 · · 111010 · · 00 P: 1101 · · 000100 · · 111010 · · 111001 · · 100001 · · 01 Q: 0010 · · 111011 · · 000101 · · 000110 · · 011110 · · 11

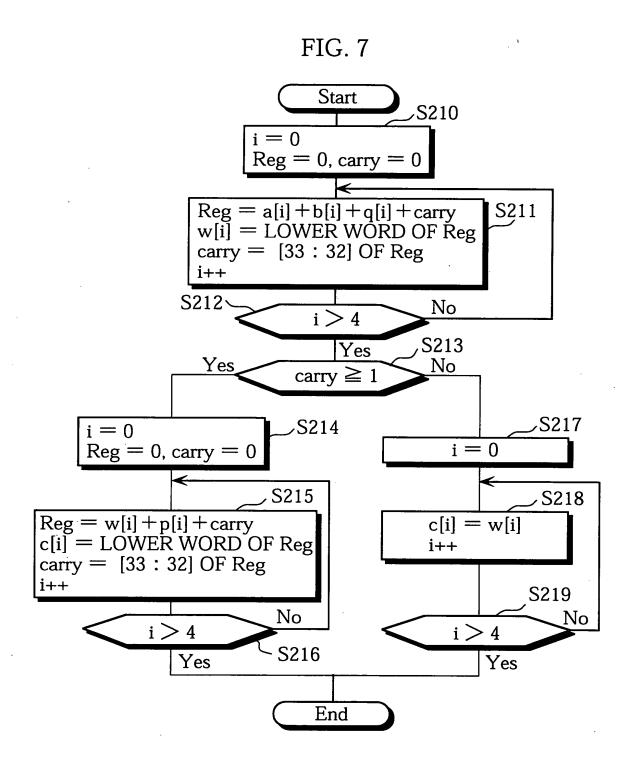
FIG. 5

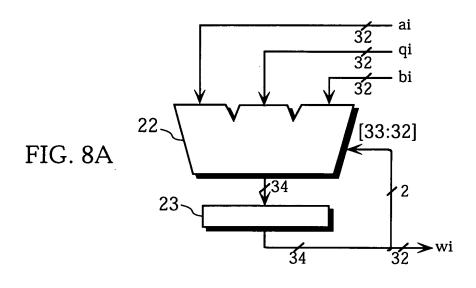
FIG. 6A

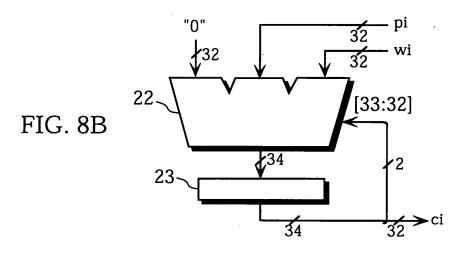
	41 سر
a0	
al	
a2	
a3	
a4	
•	
•	
p0	
p0 p1 p2 p3 p4	
p2	
рЗ	
p4	
•	
•	
q0 q1	
q1	
q2 q3 q4	
q3	
q4	
L .	

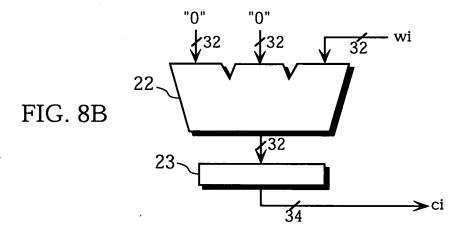
FIG. 6B

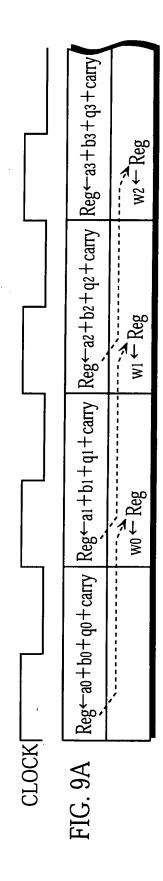
	42
b0	
b1	
b2	
b3	
b4	
•	
•	
c0	·
c1	
c2	
сЗ	-
c4	
•	
•	
w0	
w1	
w2	
w3	
w4	











arry	
Reg←w3+p3+carry	c2← Reg
Reg←w2+p2+carry	cı ← Reg
Reg←wı+pı+carry	c0 ← Reg
Reg←w0+p0+carry	``
9B	

Reg←w3	c2 ← Reg
Reg←w2	cı ← Reg
Reg←w1	co←Reg
Reg←w0	
FIG. 9C	

LO CALCI FORM	CALCULATION FORMULA	INPUT: A PRECOMPUTATION: $V = -P^{-1} \mod R$ (R=2160) OUTPUT: $M = A \cdot R^{-1} \mod P$ PROCESSING: step 1 $B = A \times V \mod R$: step 2 $M = (B \times P + A)/R$: step 3 OUTPUT M mod P
EXA	EXAMPLE INPUT	A: $10 \cdot 010 \cdot 011 \cdot 101 \cdot 111 \cdot 010 \cdot 101 \cdot 000 \cdot 101 \cdot 010 \cdot 111 \cdot 0$ P: $10 \cdot 010 \cdot 101 \cdot 010 \cdot 111 \cdot 010 \cdot 1$ Q: $00 \cdot 101 \cdot 010 \cdot 111 \cdot 010 \cdot 1$ V: $10 \cdot 101 \cdot 101 \cdot 000 \cdot 101 \cdot 1$

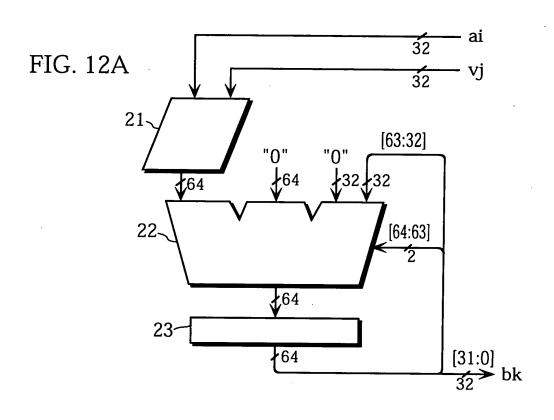
FIG. 11A

~ 41

a0
al
a2
a3
a4
a5
a6
a7
a8
a9
•
•
р0
p1 p2 p3 p4
p2
p3
p4
•
•
q0 q1 q2 q3 q4
q1
q2
q 3
q4
•
•
m0
m1
m2
m3
m4

FIG. 11B

110.110	
v0	42
v1	
v2 v3 v4	
v3	
v4	
v5	
•	
•	
b0	
b1	
b2	
b3	
b4	
•	:
•	
c0	
c1	
c2 c3	
c3	
c4	
c5	
•	
•	
e0(0xffffffff)	
•	
•	•
m0	
<u>m1</u>	
m2	
m3	
m4	



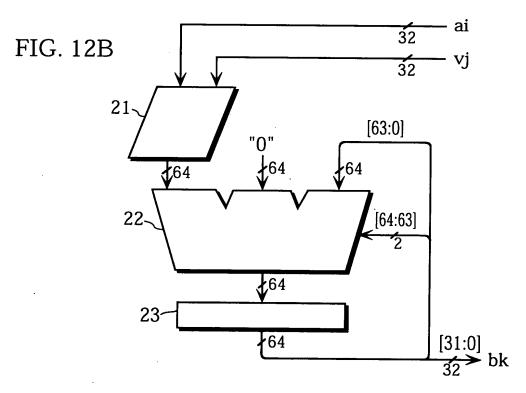
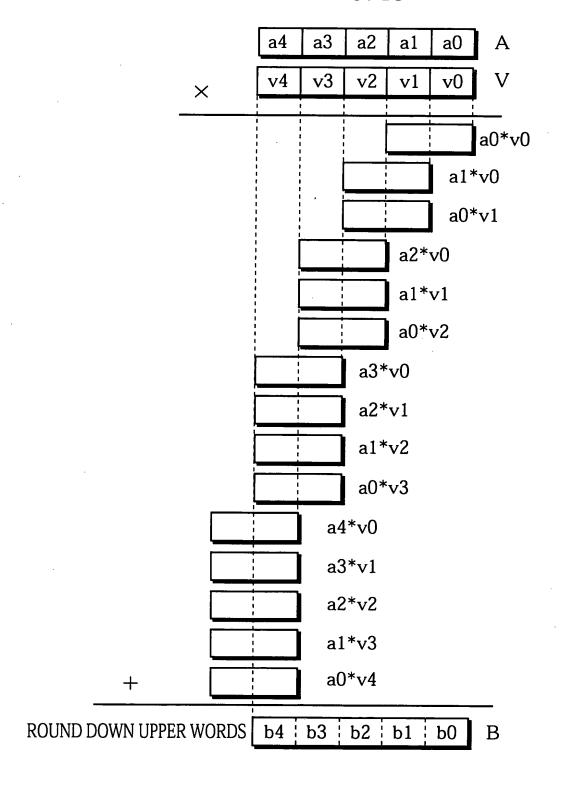
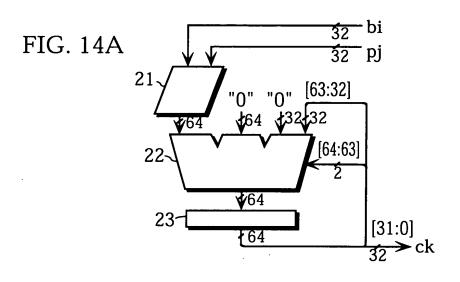
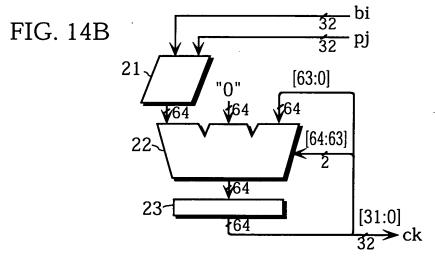


FIG. 13







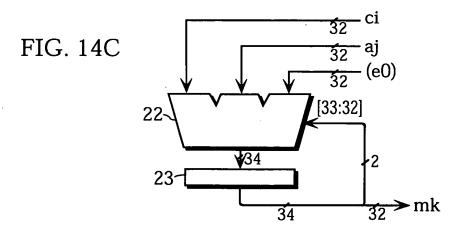
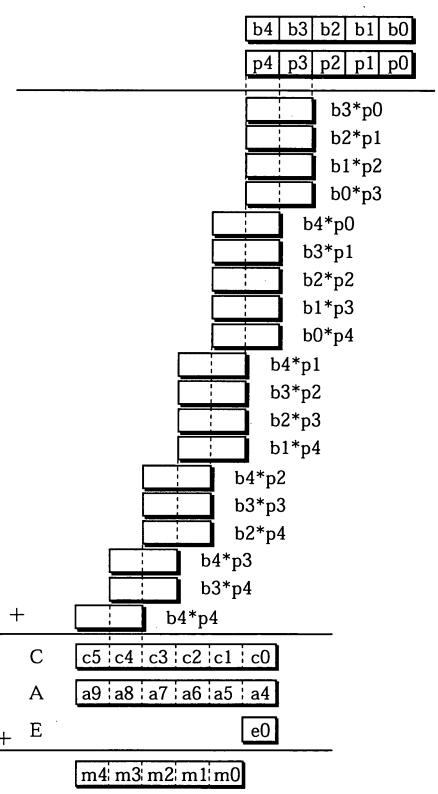
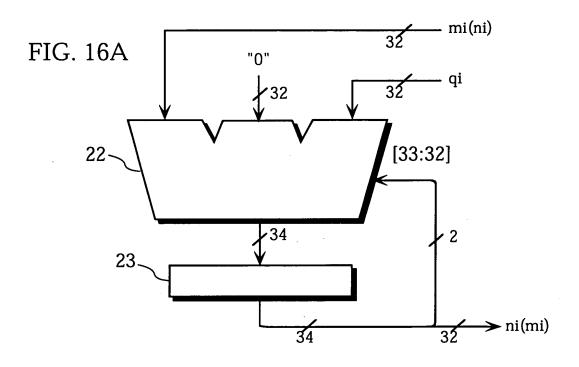


FIG. 15





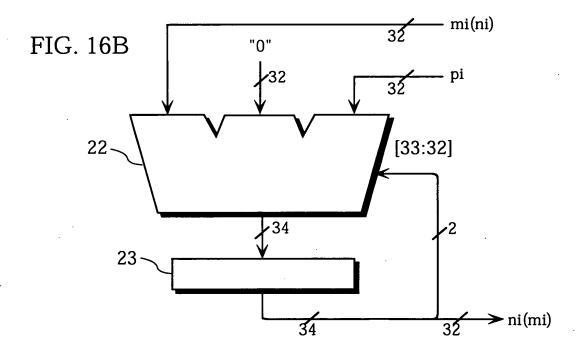


FIG. 17

